

L Number	Hits	Search Text	DB	Time stamp
2	0	nagle-deborah.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/01 13:37
3	0	woolf-elizabeth.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/01 13:37
1	4	moore-karen.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/01 13:37
4	1	woolf-elizabeth-a.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/01 13:37
5	3	nagle-deborah-lynn.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/01 13:37
6	2	i5e same protein same coupled same receptor	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/01 13:38
-	2	5891720.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/11/01 13:36

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IFIUDB  
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ZCAPLUS  
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NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available  
NEWS 9 Jun 03 New e-mail delivery for search results now available  
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NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment  
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now available on STN  
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NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded  
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced  
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced  
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file  
NEWS 25 Sep 16 Indexing added to some pre-1967 records in CA/CAPLUS  
NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA  
NEWS 27 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985  
NEWS 28 Oct 21 EVENTLINE has been reloaded  
NEWS 29 Oct 24 BEILSTEIN adds new search fields  
NEWS 30 Oct 24 Nutraceuticals International (NUTRACEUT) now available on  
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NEWS 31 Oct 25 MEDLINE SDI run of October 8, 2002  
  
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CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002  
  
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=> s l1 and l2

L5 0 L1 AND L2

=> s l2 and l3

L6 0 L2 AND L3

=> s l1 and l3

L7 0 L1 AND L3

=> s i5e (s) protein (s) coupled (s) receptor

L8 8 I5E (S) PROTEIN (S) COUPLED (S) RECEPTOR

=> dup rem l8

PROCESSING COMPLETED FOR L8

L9 6 DUP REM L8 (2 DUPLICATES REMOVED)

=> d l9 total ibib kwic

L9 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:615837 CAPLUS

DOCUMENT NUMBER: 137:164746

TITLE: Peptide ligands for mouse and rat orphan G protein-coupled receptor ZAQ, recombinant expression, and uses for drug screening and therapy

INVENTOR(S): Ohtaki, Tetsuya; Masuda, Yasushi; Takatsu, Yoshihiro

PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan

SOURCE: PCT Int. Appl., 186 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002062996	A1	20020815	WO 2002-JP837	20020201
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			JP 2001-26798	A 20010202
REFERENCE COUNT:		15	THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS	

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

IT 447472-34-6P 447472-35-7P 447472-36-8P 447472-37-9P 447472-38-0P  
447472-39-1P 447472-40-4P 447472-41-5P 447472-50-6P, G  
protein-coupled receptor ZAQ (human) 447472-51-7P, G protein-coupled  
receptor rZAQ1 (rat) 447472-52-8P, G protein-coupled receptor rZAQ2  
(rat) 447472-53-9P, G **protein-coupled**  
**receptor I5E** (human) 447472-54-0P, G protein-coupled  
receptor GPR73 (mouse) 447472-55-1P, G protein-coupled receptor mI5E  
(mouse)  
RL: ARU (Analytical role, unclassified); BPN (Biosynthetic preparation);  
BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical  
study); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(amino acid sequence; peptide ligands for mouse and rat orphan G  
**protein-coupled receptor** ZAQ, recombinant  
expression, and uses for drug screening and therapy)

L9 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:615775 CAPLUS  
 DOCUMENT NUMBER: 137:165839  
 TITLE: Novel physiologically active peptide and its use  
 INVENTOR(S): Ohtaki, Tetsuya; Masuda, Yasushi; Takatsu, Yoshihiro;  
 Watanabe, Takuya; Terao, Yasuko; Shintani, Yasushi;  
 Hinuma, Syuji  
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan  
 SOURCE: PCT Int. Appl., 197 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002062944	A2	20020815	WO 2002-JP852	20020201
WO 2002062944	A3	20021003		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS,  
 LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL,  
 PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,  
 UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ,

TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,  
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,  
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: JP 2001-26820 A 20010202

IT 448314-74-7 448314-75-8 448314-77-0 448314-79-2, G protein  
 coupled-receptor (rat rZAQ1) 448314-80-5, G protein coupled-receptor  
 (rat rZAQ2) 448314-81-6, **G protein-coupled**  
**receptor I5E** (human) 448314-82-7 448314-83-8  
 448314-84-9

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL  
 (Biological study)  
 (amino acid sequence; novel physiol. active peptide and use)

L9 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2002:72287 CAPLUS  
 DOCUMENT NUMBER: 136:97391  
 TITLE: Peptide ligands for human orphan G protein-coupled  
 receptor ZAQ, recombinant expression, and uses for  
 drug screening and therapy  
 INVENTOR(S): Ohtaki, Tetsuya; Masuda, Yasushi; Takatsu, Yoshihiro;  
 Watanabe, Takuya; Terao, Yasuko; Shintani, Yasushi;  
 Hinuma, Syuji  
 PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd., Japan  
 SOURCE: PCT Int. Appl., 191 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002006483	A1	20020124	WO 2001-JP6162	20010717

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS,  
 LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,  
 RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,  
 VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,  
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,

BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
PRIORITY APPLN. INK: JP 2000-2174 A 20000718  
JP 2001-26779 A 20010202

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

IT **Receptors**

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (**I5E**; peptide ligands for human orphan G **protein-coupled receptor** ZAQ, recombinant expression, and uses for drug screening and therapy)

IT 389166-25-0 389166-26-1, **Receptor I5E** (human)

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (amino acid sequence; peptide ligands for human orphan G **protein-coupled receptor** ZAQ, recombinant expression, and uses for drug screening and therapy)

L9 ANSWER 4 OF 6 MEDLINE DUPLICATE 1

ACCESSION NUMBER: 2002311122 MEDLINE

DOCUMENT NUMBER: 22050031 PubMed ID: 12054613

TITLE: Isolation and identification of EG-VEGF/prokineticins as cognate ligands for two orphan G-protein-coupled receptors.

AUTHOR: Masuda Yasushi; Takatsu Yoshihiro; Terao Yasuko; Kumano Satoshi; Ishibashi Yoshihiro; Suenaga Masato; Abe Michiko; Fukusumi Shoji; Watanabe Takuya; Shintani Yasushi; Yamada Takao; Hinuma Shuji; Inatomi Nobuhiro; Ohtaki Tetsuya;

Onda

CORPORATE SOURCE: Haruo; Fujino Masahiko  
Pharmaceutical Research Division, Takeda Chemical Industries Ltd., Wadai 10, Tsukuba, Ibaraki 300-4293, Japan.

SOURCE: BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, (2002 Apr 26) 293 (1) 396-402.  
Journal code: 0372516. ISSN: 0006-291X.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

OTHER SOURCE: GENBANK-AY089972; GENBANK-AY089973; GENBANK-AY089974; GENBANK-AY089975; GENBANK-AY089976; GENBANK-AY089983; GENBANK-AY089984

ENTRY MONTH: 200207

ENTRY DATE: Entered STN: 20020611

Last Updated on STN: 20020707

Entered Medline: 20020705

AB . . . study demonstrates that EG-VEGF/prokineticin 1 and a peptide closely related to EG-VEGF, prokineticin 2, are cognate ligands of two orphan G-**protein-coupled receptors** designated ZAQ (=EG-VEGF/PK-R1) and **I5E** (=EG-VEGF/PK-R2). EG-VEGF/prokineticin 1 and prokineticin 2 induced a transient increase in intracellular calcium ion concentration ([Ca(2+)](i)) with nanomolar potency in. . . Chinese hamster ovary (CHO) cells expressing EG-VEGF/PK-R1 and -R2 and bind to these cells with high affinity and with different **receptor** selectivity. EG-VEGF/prokineticins provoke rapid phosphorylation of p44/42 MAP kinase and DNA synthesis in the bovine adrenal capillary endothelial cells (BACE). The mRNAs of both EG-VEGF/PK-R1 and -R2 were expressed in BACE. The identification of the **receptors** for EG-VEGF/prokineticins may provide a novel molecular basis for the regulation of angiogenesis in endocrine glands.

L9 ANSWER 5 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 1999:305506 BIOSIS  
 DOCUMENT NUMBER: REV199900305506  
 TITLE: Isolated DNA encoding a novel human G-protein coupled receptor.  
 AUTHOR(S): Moore, Karen (1); Nagle, Deborah Lynn; Woolf, Elizabeth A.  
 CORPORATE SOURCE: (1) Maynard, MA USA  
 ASSIGNEE: Millennium Pharmaceuticals, Inc.  
 PATENT INFORMATION: US 5891720  
 SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (15-JUN-99) Vol. 1221, No. 1, pp. NO PAGINATION.  
 ISSN: 0098-1133.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English

AB The present invention relates to the discovery, identification and characterization of nucleic acids that encode a novel **G protein coupled receptor (I5E) protein**. The invention encompasses **I5E** nucleotides, host cell expression systems, **I5E proteins**, fusion proteins, polypeptides and peptides, antibodies to the **receptor**, transgenic animals that express an **I5E** transgene, or recombinant knock-out animals that do not express the **I5E**, antagonists and agonists of the **receptor**, and other compounds that modulate **I5E** gene expression or **I5E** activity that can be used for diagnosis, drug screening, clinical trial monitoring, and/or used to treat disorders such as inflammatory, . . .

L9 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1998:708836 CAPLUS  
 DOCUMENT NUMBER: 129:327533  
 TITLE: human g-protein coupled receptor protein and cDNA sequences and therapeutic applications  
 INVENTOR(S): Moore, Karen; Nagle, Deborah Lynn; Woolf, Elizabeth A.  
 PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc., USA  
 SOURCE: PCT Int. Appl., 105 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9846620	A1	19981022	WO 1998-US7615	19980417
W: AU, CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
US 5891720	A	19990406	US 1997-833226	19970417
AU 9869736	A1	19981111	AU 1998-69736	19980417
AU 749198	B2	20020620		
EP 1007536	A1	20000614	EP 1998-915594	19980417
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

PRIORITY APPLN. INFO.: US 1997-833226 A 19970417  
 WO 1998-US7615 W 19980417

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

#### FORMAT

AB The present invention relates to the discovery, identification and characterization of nucleic acids that encode a novel **G protein coupled receptor (I5E) protein**. The invention encompasses **I5E** nucleotides, host cell expression systems, **I5E** proteins, fusion proteins, polypeptides and peptides, antibodies to the **receptor**, transgenic animals that express and **I5E** transgene, or

recombinant knock-out animals that do not express the I5E, antagonists and agonists of the receptor, and other compds. that modulate I5E gene expression or I5E activity that can be used for diagnosis, drug screening, clin. trial monitoring, and/or used to treat disorders such as inflammatory, central nervous system or gastrointestinal disorders.

IT Quaternary structure  
 (DNA triplex, triplex DNA for prevention of **I5E** transcription; human **g-protein coupled receptor protein** and cDNA sequences and therapeutic applications)

IT Brain  
 Liver  
 Spleen  
 (**I5E** gene expression in brain and liver and spleen; human **g-protein coupled receptor protein** and cDNA sequences and therapeutic applications)

IT Gene, animal  
 RL: ANT (Analyte); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (**I5E**; detection of mutation within; human **g-protein coupled receptor protein** and cDNA sequences and therapeutic applications)

IT Transgene  
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (**I5E**; human **g-protein coupled receptor protein** and cDNA sequences and therapeutic applications)

IT Antibodies  
 RL: ARG (Analytical reagent use); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)  
 (antibody recognizing **I5E protein**; human **g-protein coupled receptor protein** and cDNA sequences and therapeutic applications)

IT Translation, genetic  
 (antisense or ribozyme blocking **I5E** translation; human **g-protein coupled receptor protein** and cDNA sequences and therapeutic applications)

IT Antisense DNA  
 Ribozymes  
 RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (antisense or ribozyme blocking **I5E** translation; human **g-protein coupled receptor protein** and cDNA sequences and therapeutic applications)

IT Gene  
 (expression, genetic diagnosis involving expression detection and screening for compds. modulating **I5E** gene expression; human **g-protein coupled receptor protein** and cDNA sequences and therapeutic applications)

IT mRNA  
 RL: ANT (Analyte); BSU (Biological study, unclassified); ANST (Analytical study); BIOL (Biological study)  
 (genetic diagnosis involving **I5E** expression detection; human **g-protein coupled receptor protein** and cDNA sequences and therapeutic applications)

IT **G protein-coupled receptors**  
 RL: ANT (Analyte); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)



(genetic diagnosis involving **I5E** expression detection; human  
**g-protein coupled receptor**  
**protein** and cDNA sequences and therapeutic applications)  
IT Transcription, genetic  
(triplex DNA for prevention of **I5E** transcription; human g-  
**protein coupled receptor protein**  
and cDNA sequences and therapeutic applications)

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